



# Naval Information Warfare Center Atlantic Opening Remarks

**NIWC Atlantic Technology  
Exchange**

**Kathryn Murphy  
Senior Science Technology  
Manager (SSTM) for Software  
Engineering, 54000**

# Welcome!

## ▼ Logistics:

- Refreshments
- Facilities

## ▼ Please complete the survey



AGENDA	
0800	Registration and Networking
0845	Opening Remarks
0900	Panel Track 1: Continuous Configuration Automation Tools
1020	Break
1030	Panel Track 2: Application Security Testing
1200	Lunch
1330	Panel Track 3: Software Testing Automation
1500	Networking & Panelist Engagement
1600	Event Concludes

*NIWC Atlantic does not endorse any speaker or panel member from private industry, and does not endorse any non-Federal entity, product, service or enterprise. Views presented are those of the speaker and are not necessarily representative of the views of NIWC Atlantic.*

Naval Information  
Warfare Center



ATLANTIC

# NIWC Atlantic

## 01E/40/50/70 Technical Leadership



Mr. Andrew Mansfield



Mr. Brad Hoisington

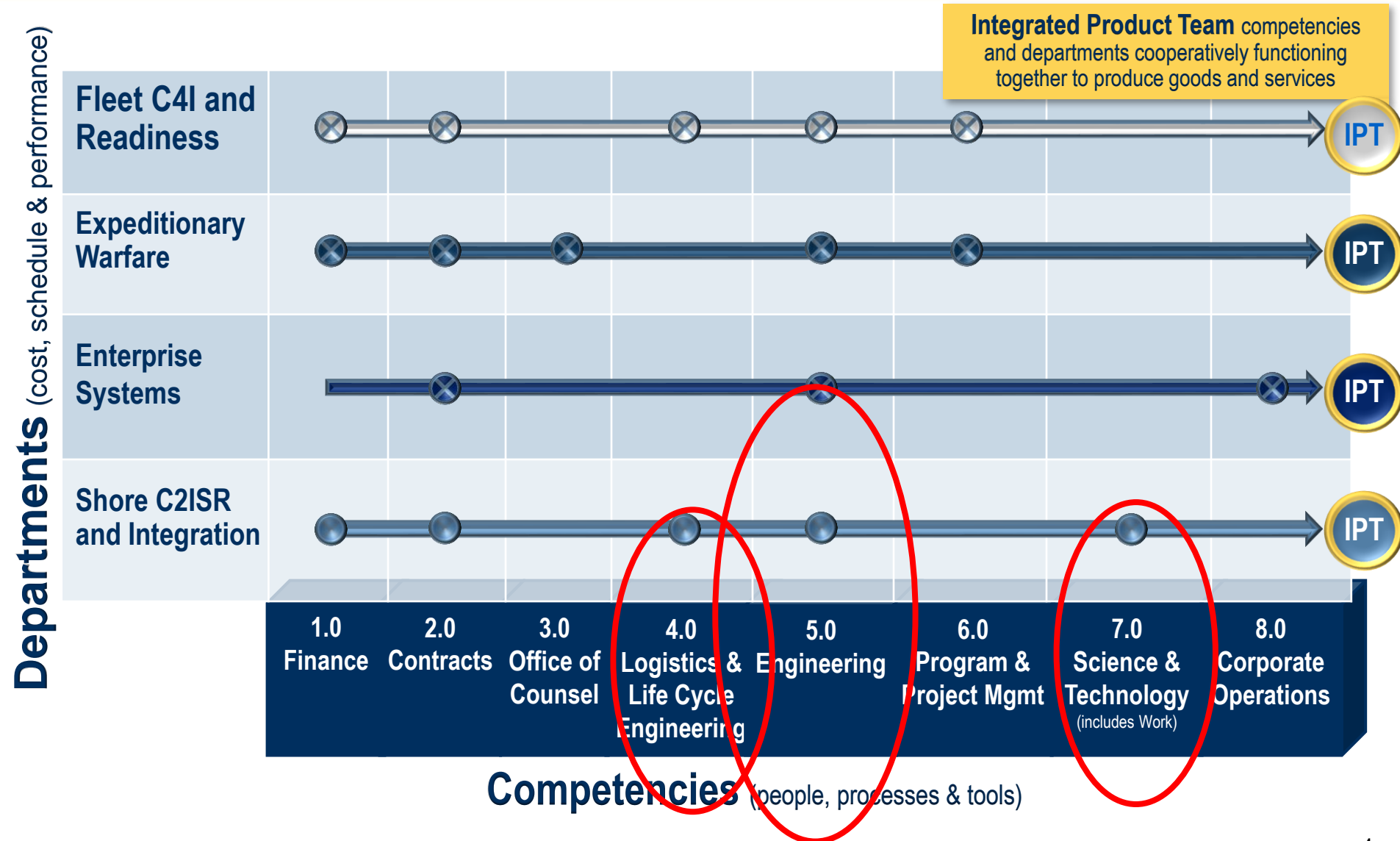


Mr. Erick Fry



Dr. Suzanne Huerth

# Competency Aligned Organization (CAO)



# Technology Exchange



## Purpose

- Increase collaboration and communication between government and industry

## Your Role

- Listen
- Contribute
- Learn

## Ground Rules

- There are no procurements in play
- We are not contracting officers and cannot commit the government
- Just networking

# Inspired by...

June 2019



## CXO Tech Forum on Acquisition Innovation

“[We] can’t just do what we’ve always done, faster. Are we burning calories on things that make a difference? **Working with industry on acquisition is essential because “it’s best to grab a better idea that’s out there than to try and create the idea ourselves.”** ASN RDA James “Hondo” Geurts



<https://govmatters.tv/introducing-speed-into-the-navys-acquisition-process-web-version/>

## Introducing speed into the Navy’s acquisition process

“...If somebody else is doing it, whether it’s in commercial industry or somewhere else, take it and run.” ...“I get all of the PEOs, commanders and direct reports once a month. At the beginning of that session is sharing what I call rapid learning moments. Some are successes some are things where we’ve learned that we don’t want to do it this way, we’ll do it a different way. **That way, everybody is building on each other. We’re not each individually innovating from the patient zero perspective.”** ASN RDA James “Hondo” Geurts



# Contracts Industry Council

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## ▼ Patrick Burnette

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## ▼ Manny Lovgren

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## ▼ Scott Varn

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## ▼ Heather Walker

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## ▼ Camila Anderson

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# Background

## ▼ FY16 NDAA - SEC. 887. EFFECTIVE COMMUNICATION BETWEEN GOVERNMENT AND INDUSTRY

- “Not later than 180 days after the date of the enactment of this Act, the Federal Acquisition Regulatory Council shall prescribe a regulation making clear that **agency acquisition personnel are permitted and encouraged to engage in responsible and constructive exchanges with industry**, so long as those exchanges are consistent with existing law and regulation and do not promote an unfair competitive advantage to particular firms.”

## ▼ DEPSECDEF MEMO dtd 2 MAR 2018



- “Our National Defense Strategy (NDS) directs our INTENTIONAL engagement with Industry to harness and protect the National Security Innovation Base as well as modernize key capabilities. Cultivating a competitive mindset requires we **OPTIMIZE OUR RELATIONSHIPS WITH INDUSTRY** to drive higher performance while always remaining within the letter and spirit of ethics and procurement regulations.”

## ▼ OMB MEMO dtd 30 APR 2019

- “Myth-Busting #4 – Strengthening Engagement with Industry Partners through Innovative Business Practices.

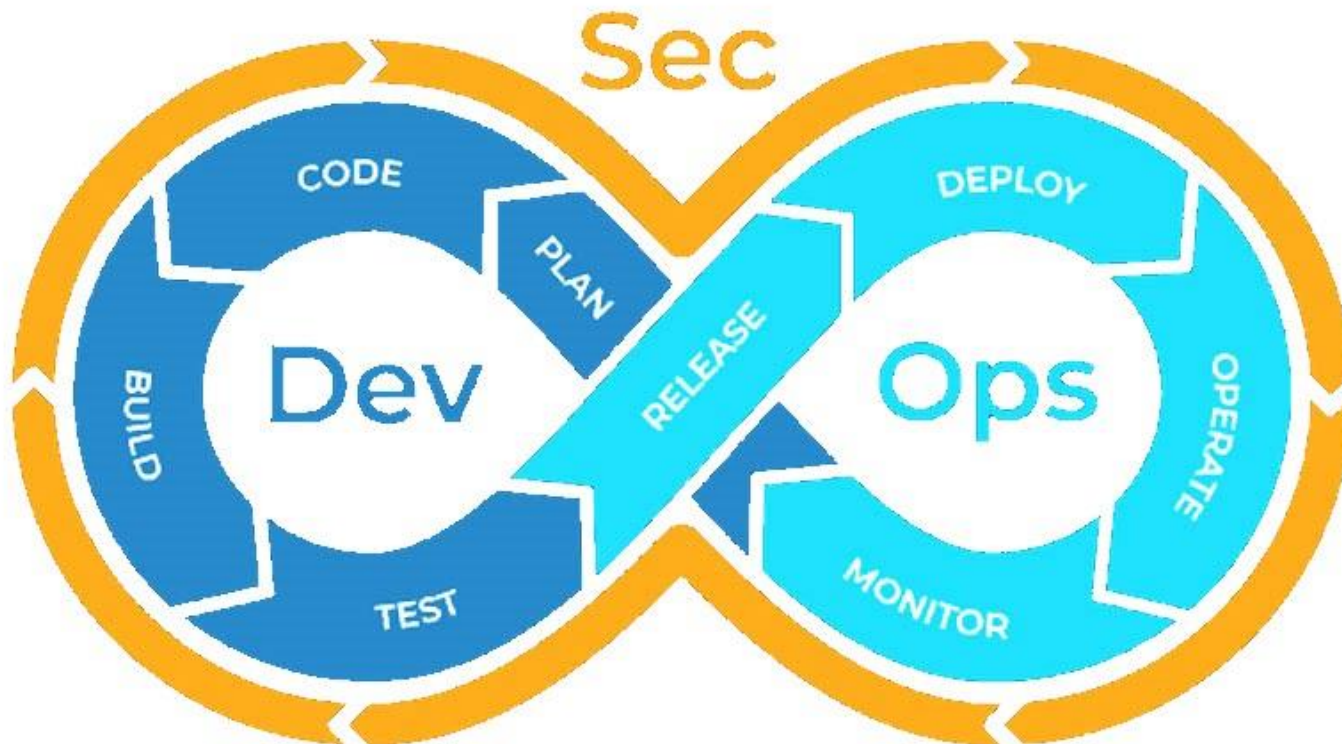


# Technology Focus Areas (TFAs)

-  **On-Demand Manufacturing:** Produce products and/or components, when or as they are required at the point of use, using additive and/or traditional manufacturing methods. (Steve Lariviere)
-  **Model-Based Systems Engineering (MBSE):** Technologies used to support the development, management and application of virtual constructs of varying fidelity across the spectrum of systems engineering. (David Smoak)
-  **DevSecOps:** Refers to replacing siloed Development, Security and Operations to create multidisciplinary teams that collaborate with shared and efficient practices and tools. (Kathryn Murphy)
-  **Assured Communications:** Addresses the demand for resilient, and sometimes covert, wired and wireless communications in degraded and/or denied environments. (Ann Rideout)
-  **Cloud Computing:** IT modernization and digital transformation for resilient infrastructure, platform and software services. (Ann Rideout)
-  **Mobility:** Provide Wireless Technology and enterprise access for the warfighter to engage with a mobile environment and applications, anytime, anyplace (Ann Rideout)
-  **Data Science and Analytics:** Provide warfighters with disruptive analytics-driven, data-informed, and technology-empowered capabilities to drive decision advantages and optimal mission outcomes. (Rob Keisler)
-  **Internet of Things (IoT) and Embedded Systems:** Provide awareness to the warfighter at the edge by connecting devices embedded with state-of-the-art sensors, software, and electronics. (Rob Keisler)
-  **Cyber Warfare:** Ensures availability, integrity, authentication, confidentiality and nonrepudiation of data sources. (Erick Fry)
-  **Autonomy:** Enabling systems to adapt their actions to changes in their mission and operating environment without the intervention of a human operator. (Dr. Suzanne Huerth)



# DevSecOps



**Continuously and securely delivering valuable software to the warfighter,  
in order to win the information war!**

# Big Navy Efforts on DevOps

## ▼ ASN RDA established NavalX

- With goal to create a mission-ready Department of the Navy and a pivot-ready workforce by constructing agile networks, identifying and deploying **agile methods and tools, and creating an agile-thinking workforce.**
- NavalX creates advantages in a changing and complex environment by connecting the Naval team with tools and non-traditional methods to drive greater agility.
- 4 main thrust areas
  - Playbooks
  - Tech Bridges (**Palmetto Tech Bridge** Kickoff was yesterday)
  - **Launch Platforms**
  - Awards and Stories

## ▼ DoN CIO and DASN for IW / DoN CTO

- Launch Naval Digital Platform Transformation

## Panel Track 1

# Continuous Configuration Automation Tools

Moderated by: Derik Pack

# Panel Track 2

## **Application Security Testing**

Moderated by: Hank Osborne

# Panel Track 3

## **Software Testing Automation**

Moderated by: Terry Gantenbein